

Attachment #20

The purpose of this study was to evaluate the mutagenic potential for the PMN substance in five strains of *Salmonella typhimurium* (TA 1535, TA 100, TA 1537, TA 98 and TA 102) using the plate incorporation method. The study was performed in accordance with OECD Guideline 471 (bacterial reverse mutation test). Doses up to 5,000 micrograms/plate were used. An independent assay was conducted with preincubation at 37C for 20 minutes.

No bacteriotoxic effect was observed. No evidence of mutagenicity was seen with the PMN substance. Positive and negative controls behaved as expected. The PMN substance was considered to be non-mutagenic in these assays with and without metabolic activation.